

Summary:

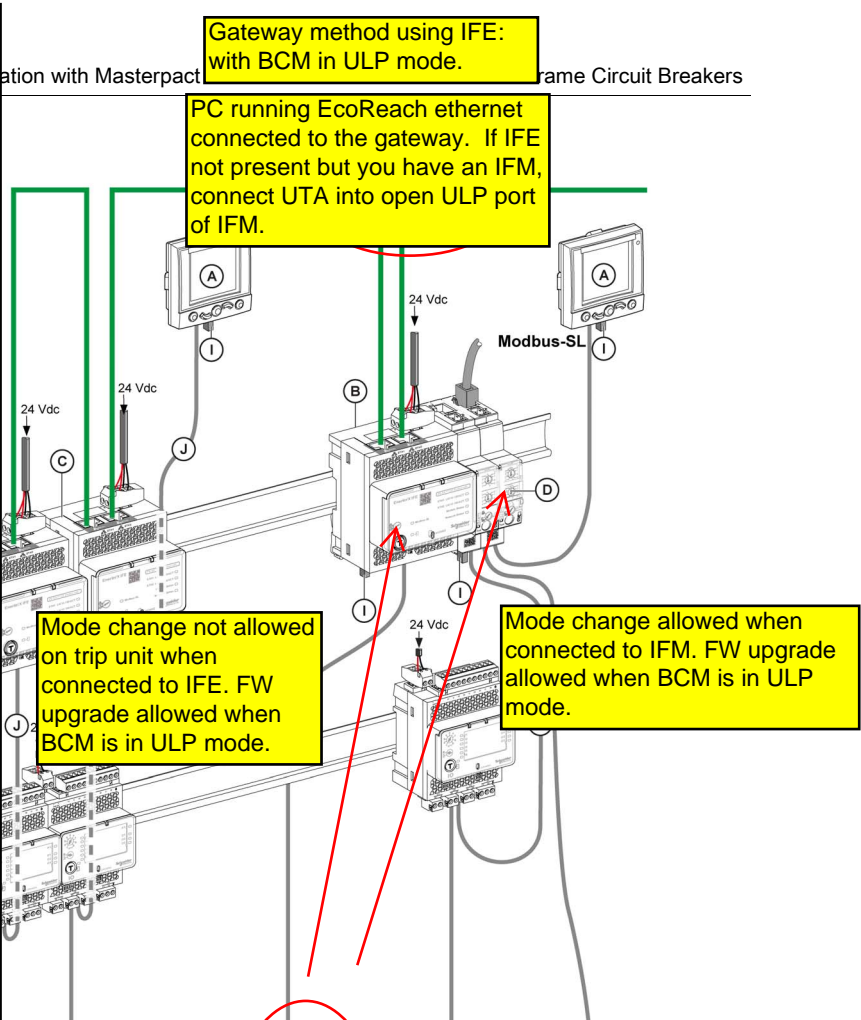
Prerequisites:

1. BCM's must be in 2W+ULP mode to update FW. Therefore only grey connector versions (newer) can be updated. The green connector version (older) cannot be updated because they don't have ULP mode option. If your application uses BCM in 4 wire mode, switch back to 4W mode when FW update is finished.
2. A newer P or H trip unit with FW of 2010AK or higher to change the BCM mode to 2W+ULP.

There are four recommended ways to update the BCM firmware:

1. Ecoreach software, PC with Ethernet connection. Use this method when the BCM is ULP wired directly to IFE, IFE switchboard server, or to a IFM connected to IFE switch board server or EGX.
2. Ecoreach software, PC, UTA ULP connection. Use this method when BCM is ULP connected to an IFM with no IFE. Use open ULP connection on the IFM or FDM121.
3. Ecoreach software, PC, USB to RS485 converter, wired to the top of the IFM V1 on terminals E1, E2,(24Vdc power, and E3 and E4 (modbus terminals). IFM V2 requires a RJ45 connector. Use this method if no IFE or no UTA available.
4. Ecoreach software, PC, UTA with breaker ULP cable connected to BCM terminals E1, E2,(24Vdc power, and E5 and E6 (ULP terminals). Use this method when no IFE or IFM are available.

Note: depending on your application and equipment available, you may have to setup a station outside your application, remove the BCM's, update the FW, then reinstall back into your application.



Gateway method using IFE: with BCM in ULP mode.

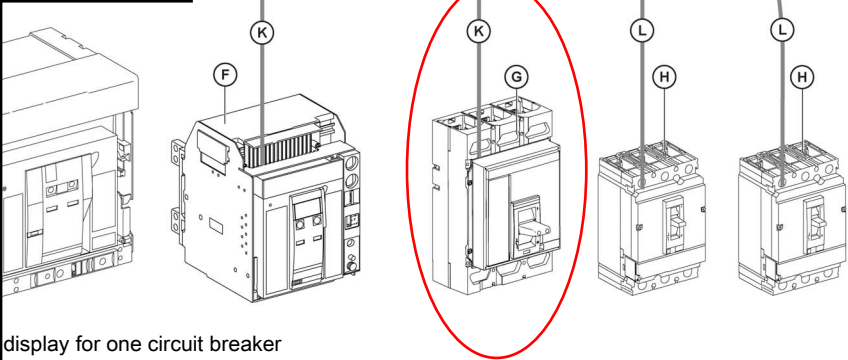
PC running EcoReach ethernet connected to the gateway. If IFE not present but you have an IFM, connect UTA into open ULP port of IFM.

Mode change not allowed on trip unit when connected to IFE. FW upgrade allowed when BCM is in ULP mode.

Mode change allowed when connected to IFM. FW upgrade allowed when BCM is in ULP mode.

UTA method: use when IFE or IFM not available.

A firmware upgrade cannot be performed in 4-wire mode, so a UTA will be necessary, and possibly a spare P/H trip unit. The BCM will need to be changed to 2w+ULP mode, and connected to the UTA's ULP port via Breaker ULP Cord using terminals E1, E2, E5, and E6 of the BCM. If the trip unit that is installed is too old to change the 2w/4w setting (or if it is an A trip unit) then a spare P/H trip unit will be needed to change the setting. The UTA gets connected via USB cable to the computer, then Ecoreach should be able to be used to upgrade the firmware. It may be necessary to change the search mode in Ecoreach to Serial and use the COM port associated with the UTA (from the computer's device manager) with the settings of 19.2 kbaud, even parity, Modbus address 248 (for UTA).



display for one circuit breaker
 switchboard server
 interface for one circuit breaker
 SL interface for one circuit breaker
 application module for one circuit breaker
 7/NW circuit breaker
 and R-frame circuit breaker
 J-, and L-frame circuit breaker
 nation

BCM ULP cord

Breaker with P or H trip unit, with BCM (grey connector only) running in ULP mode. ULP wired directly to IFE, IFE switchboard server, or to a IFM connected to IFE switch board server or EGX.